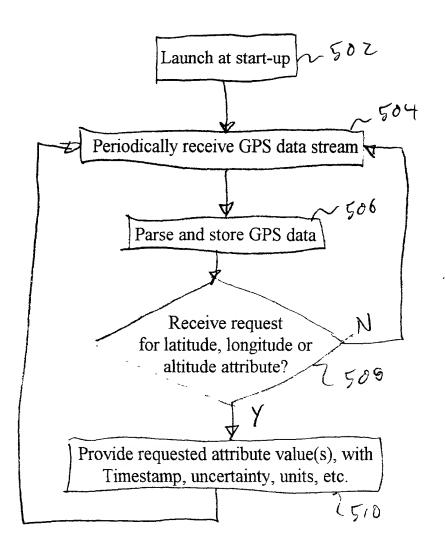


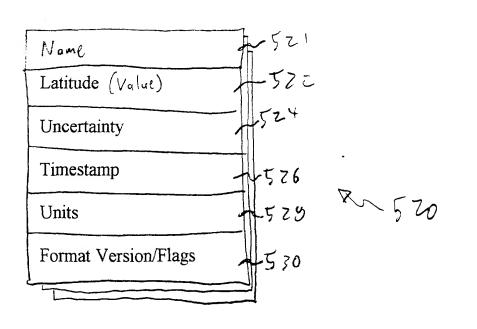
F163

the term of the transmission with the seath them.

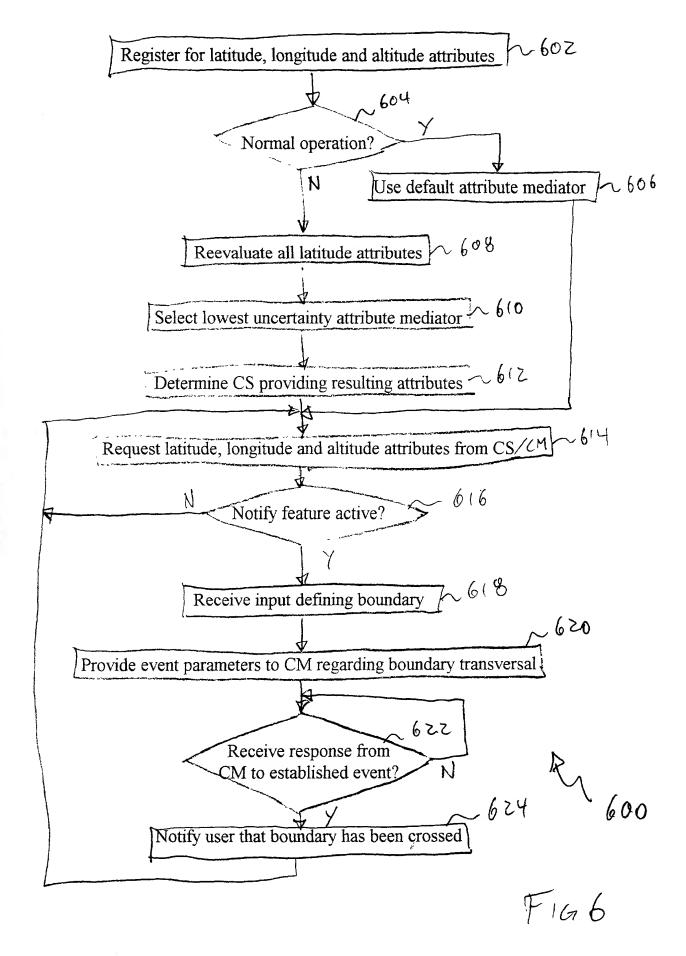


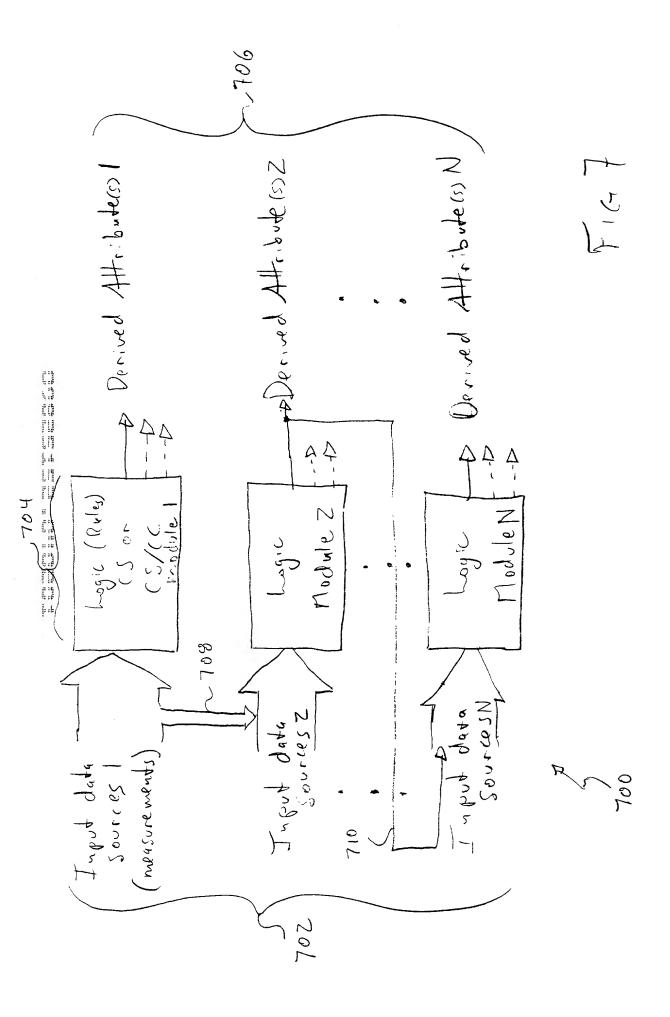
500

FIG 5A



F1G5B

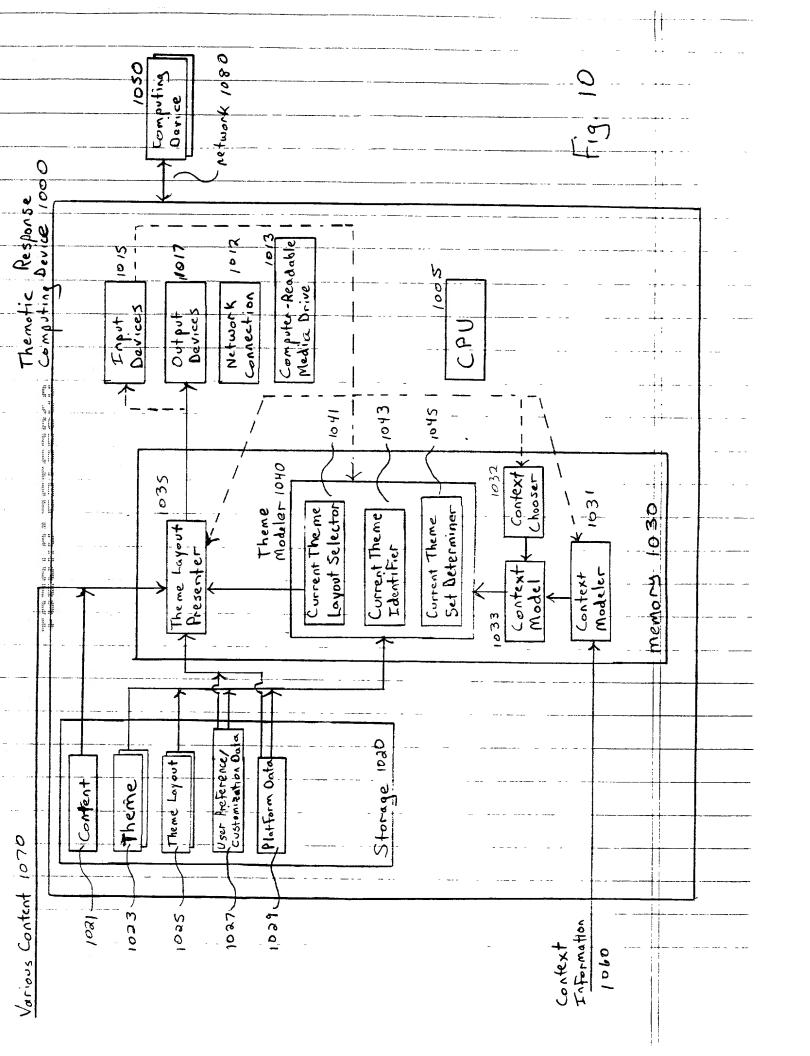




User.	Platform. (continued)
Desired privacy level	CPU.
Interruptibility	Load
Speed	Speed
Direction	Memory.
Acceleration	Total_capacity
Availability.	Used
Cognitive availability	Storage.
Tactile availability	Total_capacity
Manual availability	Used
Visual availability	Connectivity.
Oral availability	Connection_status
Auditory availability	Connection speed
Proximity. <item name="" or="" place=""></item>	Connection_type/device
Mood.	Connection activity
Happiness	Power.
Sadness	Power source
Anger	Power level
Frustration	Environment.
Confusion	People.
Activity.	Nearest
Driving	
•	Number_present
Eating Running	Number_close Local.
_	
Sleeping	Time
Talking	Date
Typing	Temperature
Walking	Pressure
Location.	Wind_speed
Place_name	Wind_direction
Latitude	Absolute_humidity
Longitude	High_forecast_temperature
Altitude	Low_forecast_temperature
Room	People_present
Floor	Ambient_noise_level
Building	Ambient_light_level
Address	Days. <pre>cprevious or future>.</pre>
Street	High_temperature
City	Low_temperature
County	Precipitation_type
State	Precipitation_amount
Country	Place. <place name="">. (same as Environment.Local)</place>
Postal_Code	Application.
Destination. (same as User.Location.)	Mail.
Physiology.	Available
Pulse	New_messages_waiting
Body_temperature	Messages_waiting_to_be_sent
Blood_pressure	Phone.
Respiration	Available
Person. <name id="" or="">. (same as User.)</name>	In_use
Platform.	On/off
UI.	Notification_mechanism
Oral_input_device_availability	Call_incoming
Manual_input_device_availability	Caller_ID
Tactile_output_device_availability	Sound_recorder.
Visual_output_device_availability	Available
Auditory output device availability	Recording

ser Setting	Computer
Mental Context	Power
Meaning	Configuration
Cognition	User Input Systems
Divided User Attention	Hand/Haptic
Task Switching	Keyboard/Keystrokes
Background Awareness	Voice/Audio
Solitude	Eye Tracking
Privacy	Cursors
Desired Privacy	Axis
Perceived Privacy	Resolution
Social Context	Selection
Affect	Invocation
Physical Situation	Accelerators
Body	Output Systems
Biometrics	Visual
Posture	Resolution
Motion	Audio
Physical Encumberment	Public/Private
Senses	Haptic
Eyes	External Resources
Ears	I/O devices
Tactile	Connectivity
Hands	Data
Nose	Quantity/State
Tongue	Urgency/Importance
Workload demands/effects	Use of Prominence
Interaction with computer devices	Modality
Interaction with people	Sensitivity/Purpose
Physical Health	Privacy Issues
Environment	Use of Association
Time/Space	Use of Safety
Objects	Source/Ownership
Persons	Types
Audience/Privacy Availability	User generated
Scope of Disclosure	Other computers or people
Hardware affinity for privacy	Sensor
Privacy Indicator for User	PC State
Privacy Indicator for Public	Use of Association
Watching Indicator	
Being Observed Indicator	
Ambient Interference	
Visual	
Audio	
Tactile	

F169



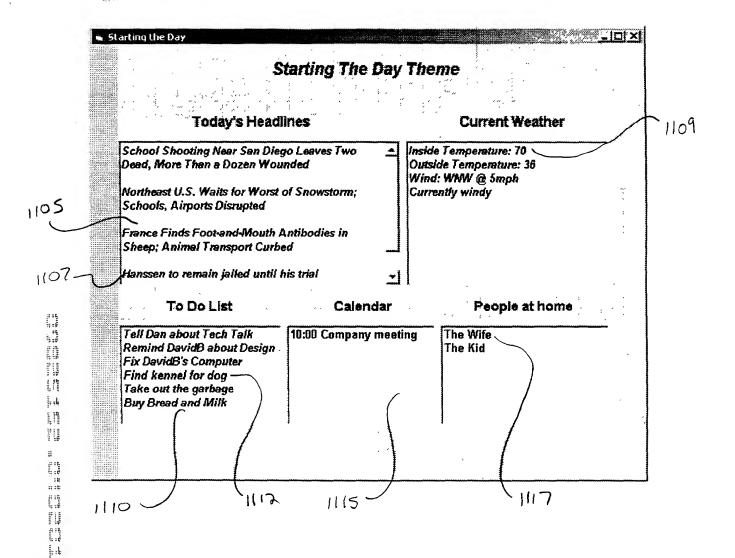


Fig. 11 A

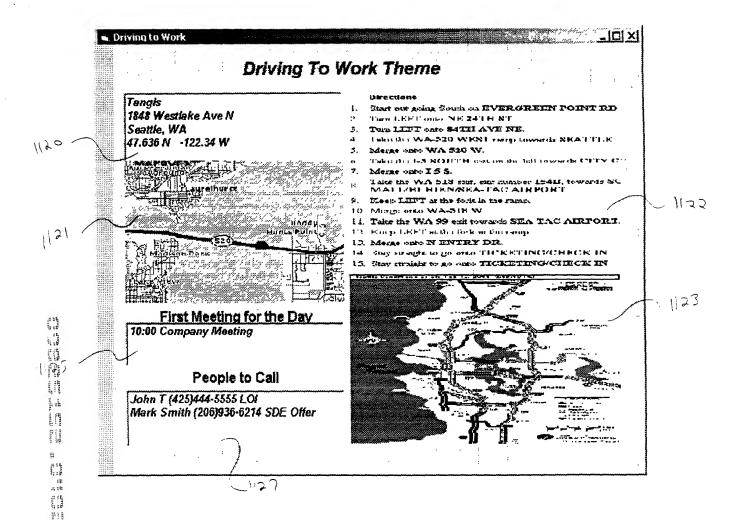


Fig. 11B

Ancel Johnson	To Do List Tell Dan about Tech Talk Remind DavidB about Design spec deadline. Fix DavidB's Computer Call Mark Smith (206)936-6214 about Job Offer
	angis Bulletin Board
1 Weekly Company meeting at 10:0 2 VIA demo at 3:00pm Penthouse. 3 Who let my dog out?[Dan]	Everyone invited. ne tonight[Josh]
4 Extra ticket to Sonics/Lakers gam 5 Who used decaf on the non deca	.f ==4= [=="Il"][@{z,m}]

Fig. 11C

25 35 cm	Calendar	To Do List	:
8 200		Tell Dan about Tech Talk Remind DavidÐ about Design spec deadlir	
		Fix DavidB's Computer	
900		See Bill about networking problems Call Mark Smith (206)936-6214 about SDE	
	🔯 Company Meeting	Can mark Simin (200)\$30-0214 BDUL SEL	<i>,</i>
10 [∞]	a company moduly		
11.00			
11			
12 pm		People Around You	
		Billi Watson	
100		Alan Housley	
200		Dorothy B.	
2			· I
300 3	ÓÉ VIA Demo		
4.00			

Fig. 11D

_

Fig 11E

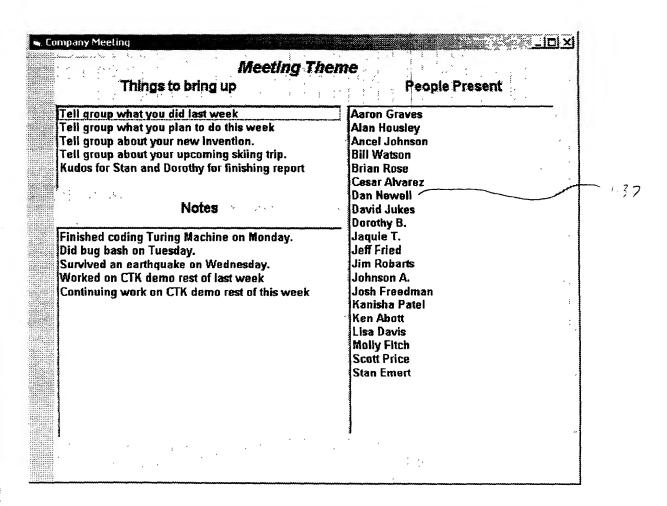


Fig. 11F

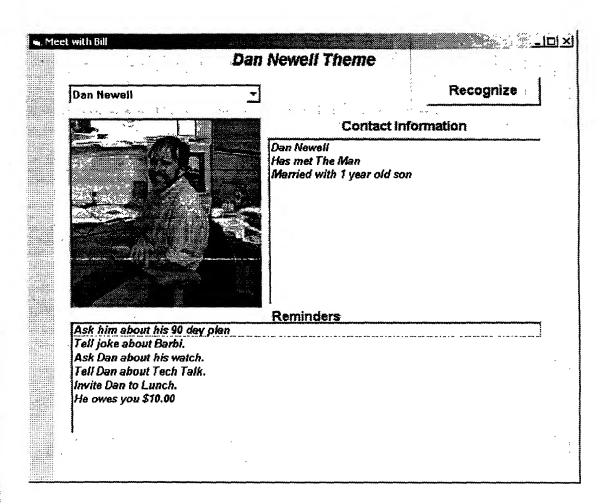


Fig. 11G

Garling St. Jan 2 1
Previous Next Section Next Next Next Next Next Next Next Next

Fig. 11H

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15 12 14 14 14
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Computer Equipment Josh's Computer	
Description	Notes
Dell XPS 4000 Purchase Date: 11/20/2000 Tangis Tag: PCD01 Software installed	Currently inoperative Josh noticed a loud noise coming from the hard disk. He sald it might be a problem with the disk's brake pads.
Office 2000 Visual Studios 6.0 MS Entertainment Pack Boeing Marketing Tutorial: How to talk like a techie Hardware Installed	If he mentions this again, humor him.
Creative Sound Blaster 10.0 card Ricoh 32X CDRW MS USB Microphone Intel TR1688 100Mbps Token Ring	

Fig. 11 I

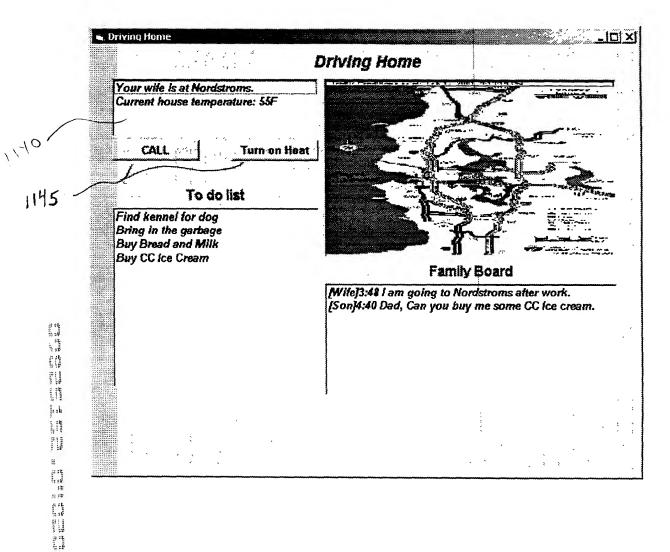


Fig. 11J

.L

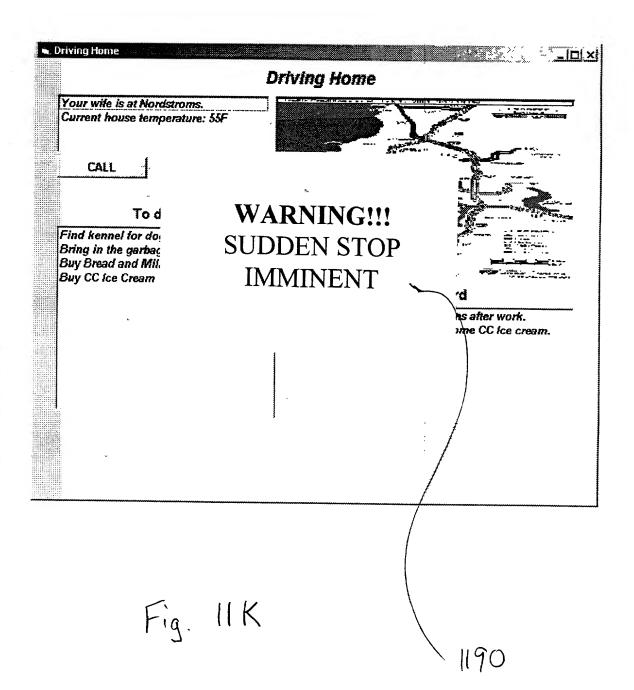


Fig 11L

And Then

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Change and the state than the

theele if there's

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1.4

Example Current Theme Selection

Select A New Current Theme

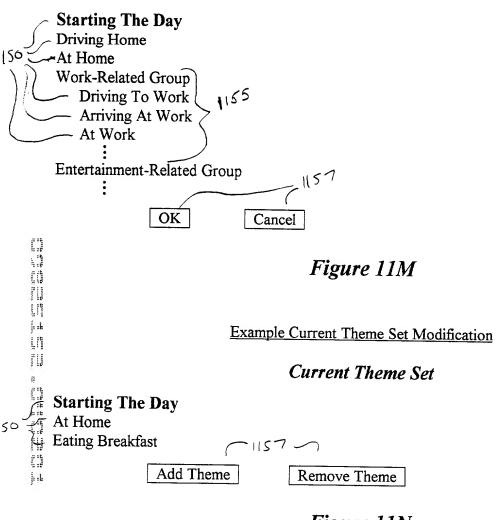
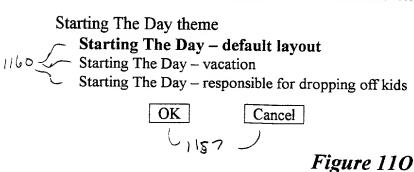


Figure 11N

Example Current Theme Layout Selection

Select A New Current Theme Layout



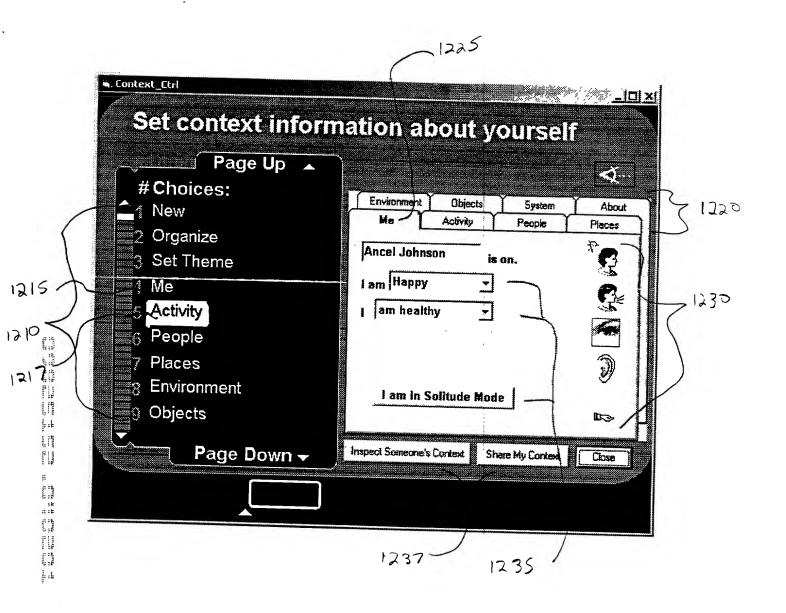


Fig. 12A

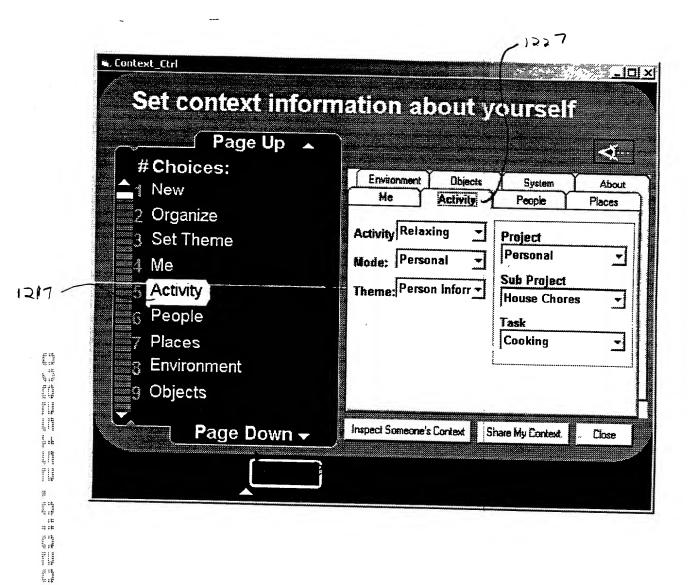


Fig. 12B

Conlext_Ctrl	1241
Set context infor	mation about yourself
Page Up ▲	▼
#Choices:	Environment Dijects System / About
New	Me Activity People Places
2 Organize	T A.A. I
3 Set Theme	
4 Me	People Around Me David Jukes
5 Activity	*Dan Newell Alan Housley
People	Johnson A.
7 Places	
8 Environment	. 1
g Objects	Set Focus Remove
Page Down →	Inspect Someone's Context Share My Context Close

Fig. 12C

Page Up 🔺	⊘ in ∀ in
#Choices:	Environment Objects System About
! New	Me Activity People Places
② Organize	Location Jim's office
} Set Theme	
. Me	LAT 47.636 N LONG -122.34 W
Activity	room
People	1848 Westlake Ave N Seattle, WA
Places	
~	Destination Tangis
g Objects	
Environment Objects	Destination Tangis

Fig. 12D

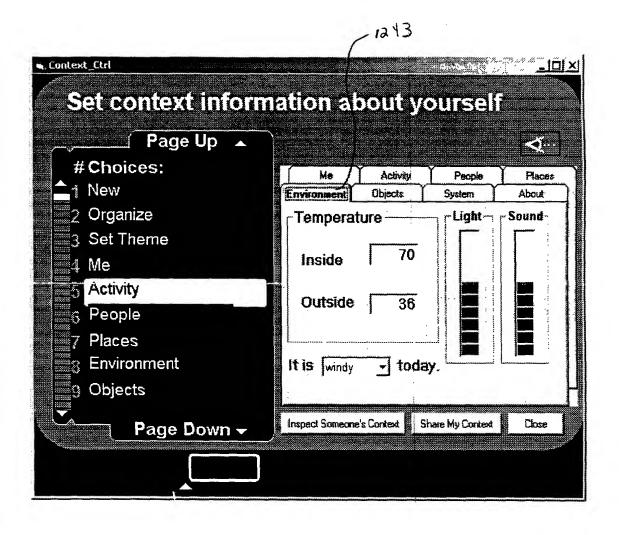


Fig. 12E

	1244
, Context_Ctrl	_101
Set context infor	mation about yourself
Page Up 🔺	
#Choices:	Me Activity Page 2
A New	Me Activity People Places Environment Objects System About
2 Organize	J Special About
3 Set Theme	
4 Me	Objects Around Me Dan's Computer
5 Activity	Laptop.
People	Xybernaut MA IV
7 Places	
8 Environment	
Objects	Set Focus Remove
Page Down →	Inspect Someone's Context Share My Context Close

Fig. 12F

Set context inform Page Up	nation about	
#Choices: New Organize Set Theme Me Activity People Places	Me Activit Environment Objects Battery Mic Volume Backlight is OFF	System About Signal Strength
S Environment G Objects Page Down ✓	Inspect Someone's Contest	Shere My Context Close

Fig. 12G

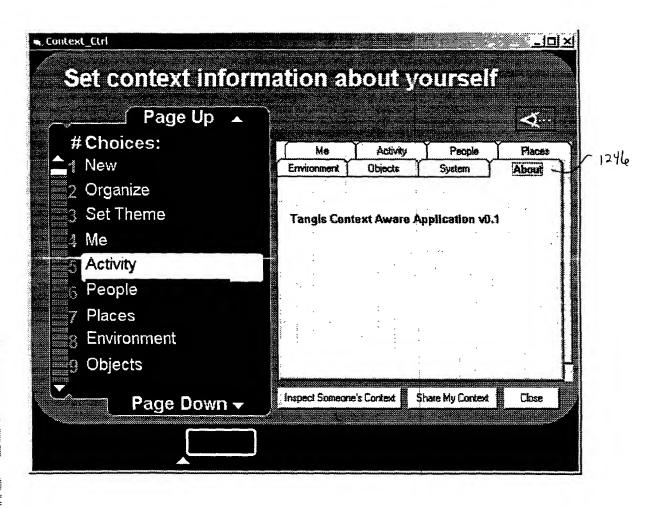


Fig. 12H

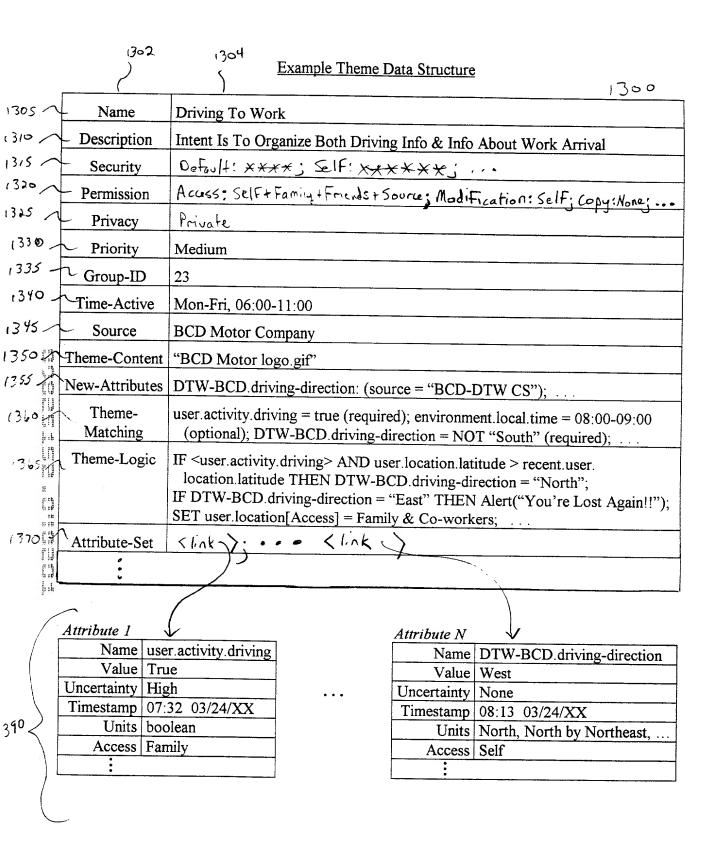
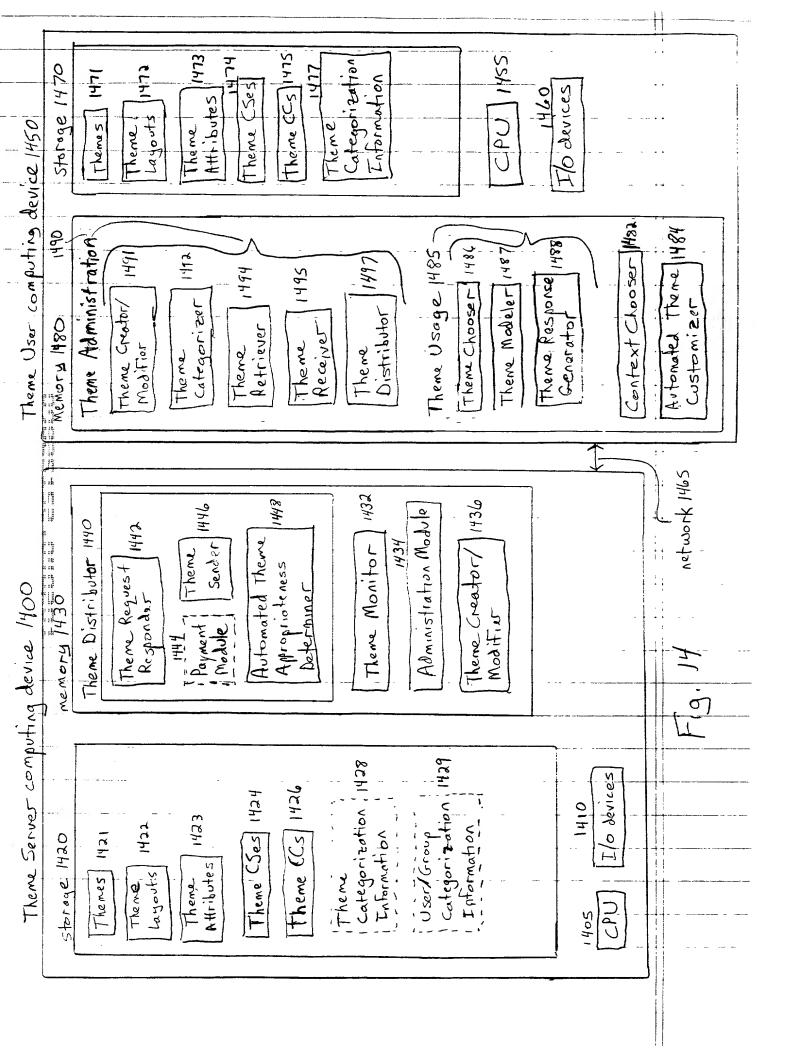
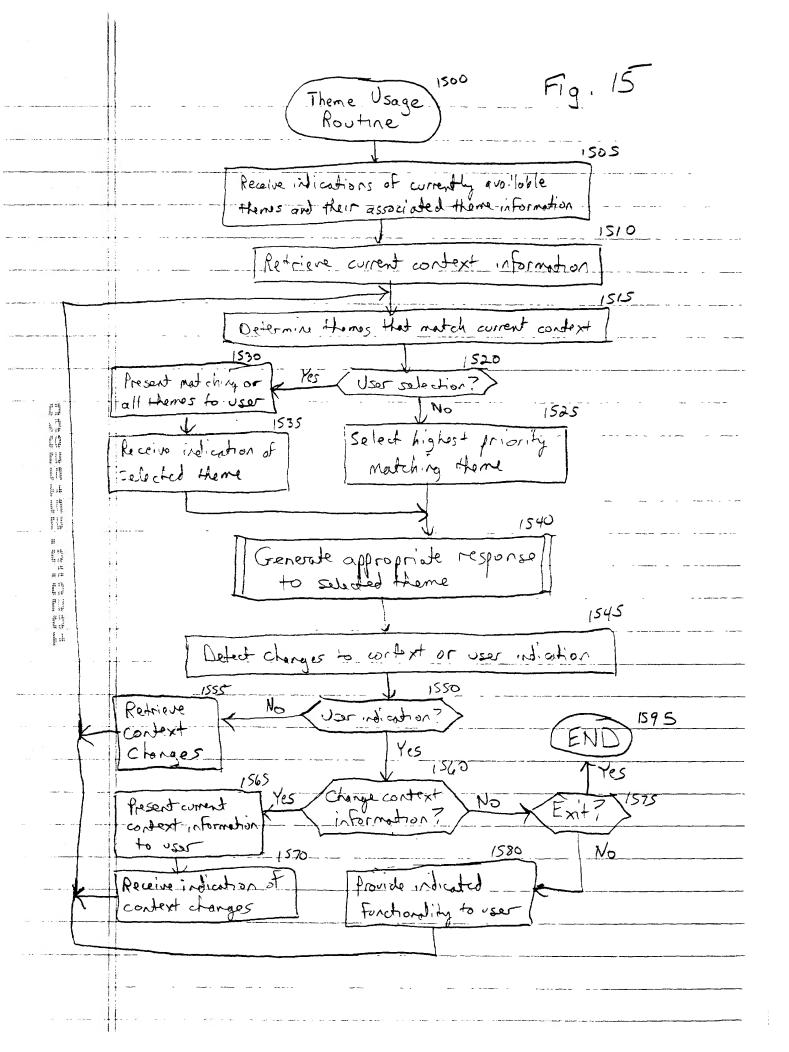
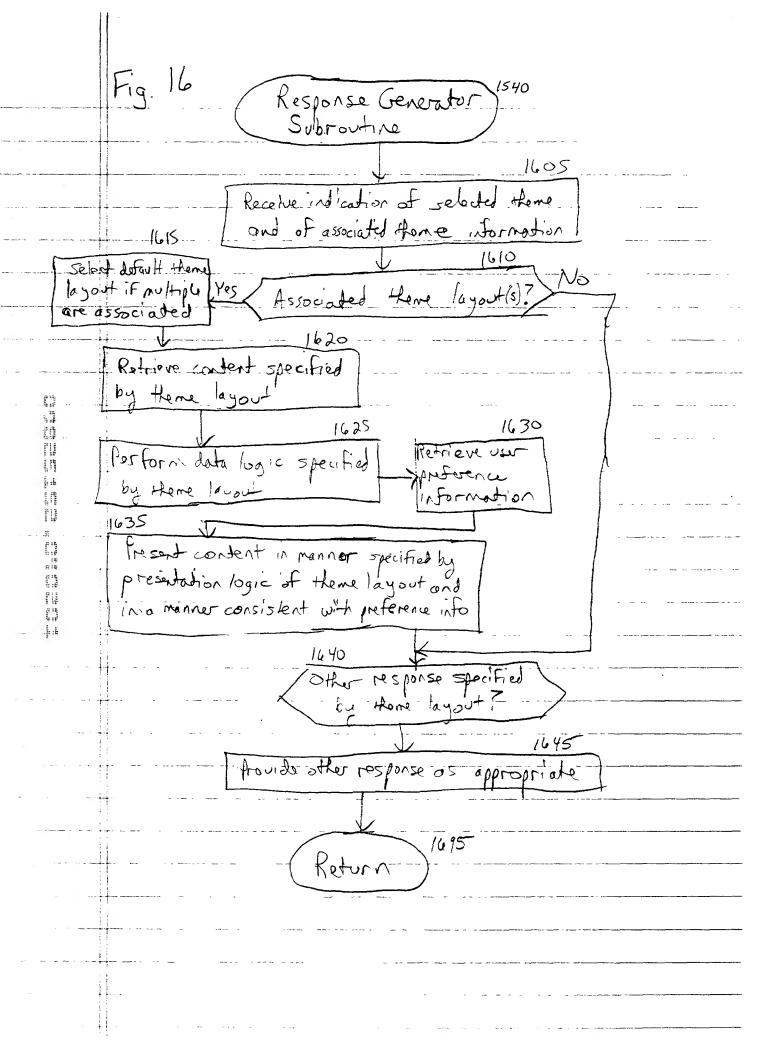
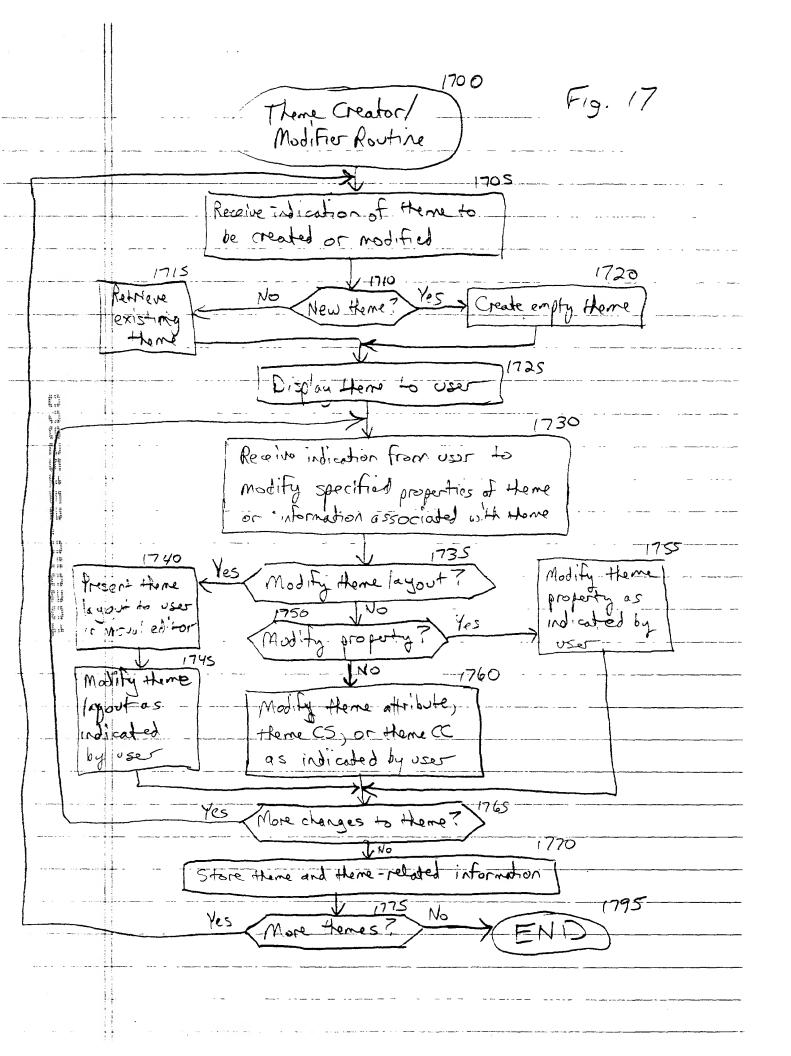


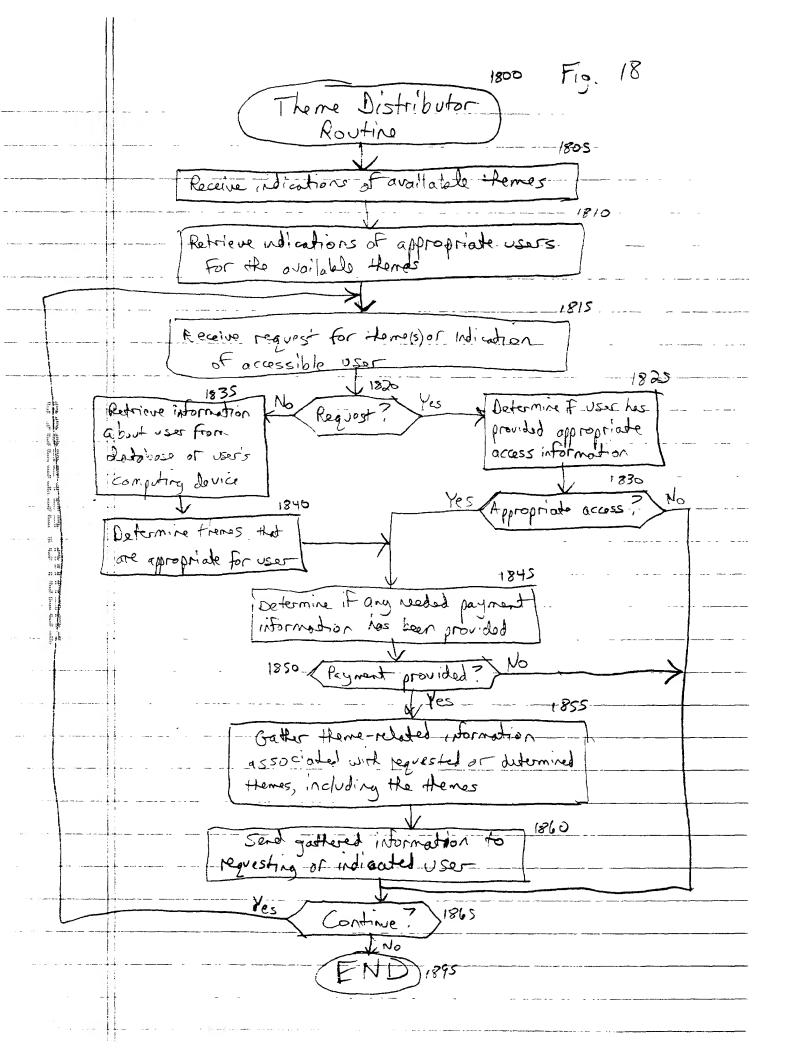
Figure 13

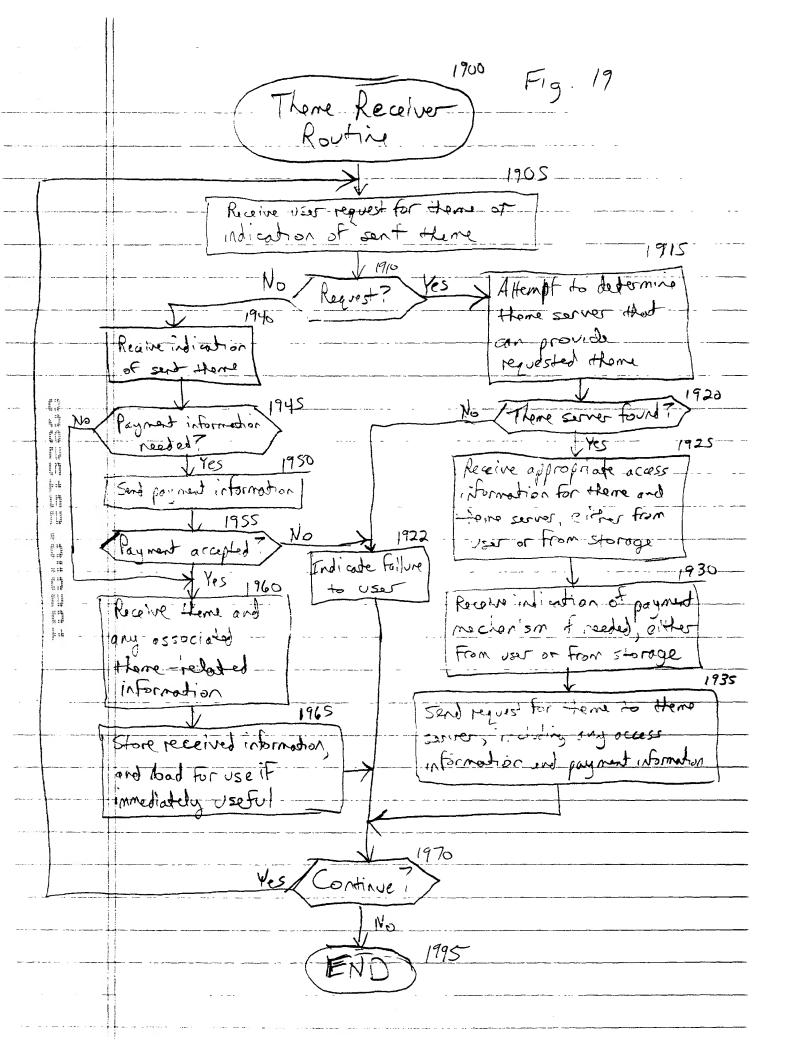


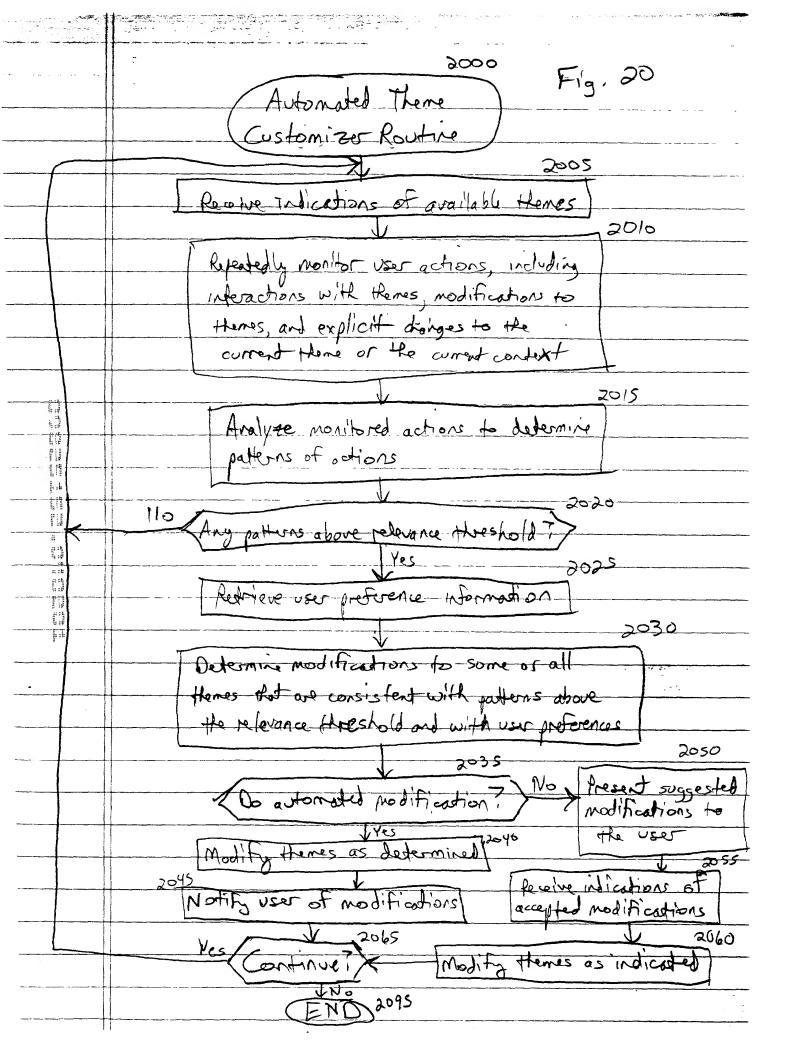












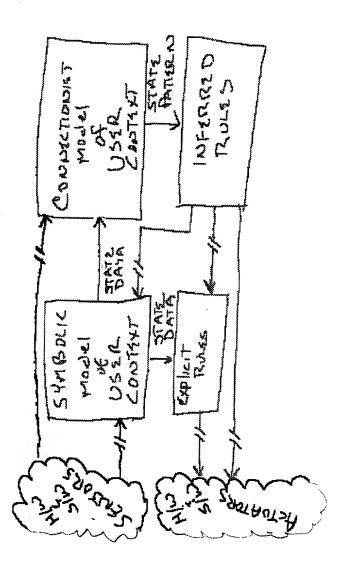


Figure 21

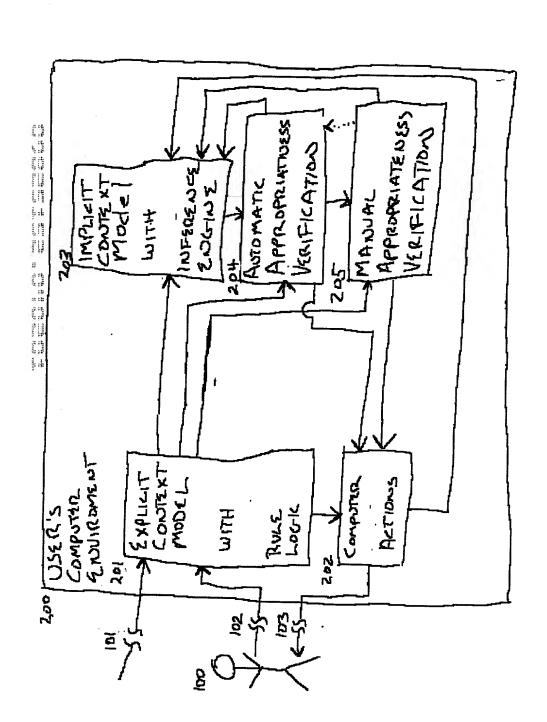


Figure 22

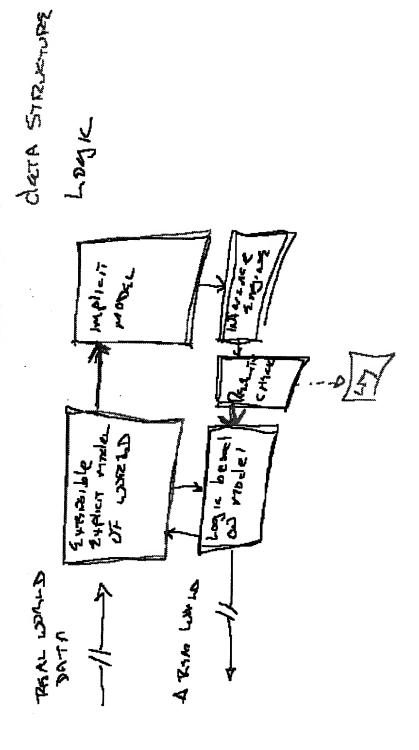


Figure 23

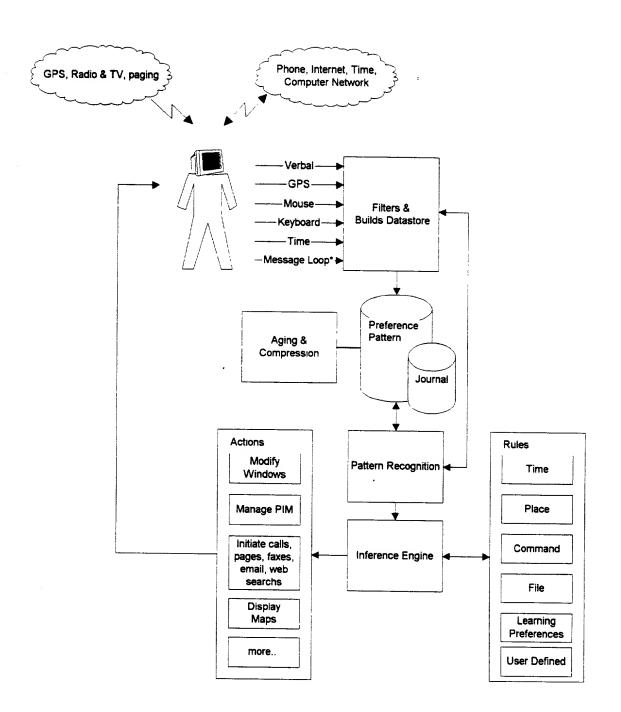
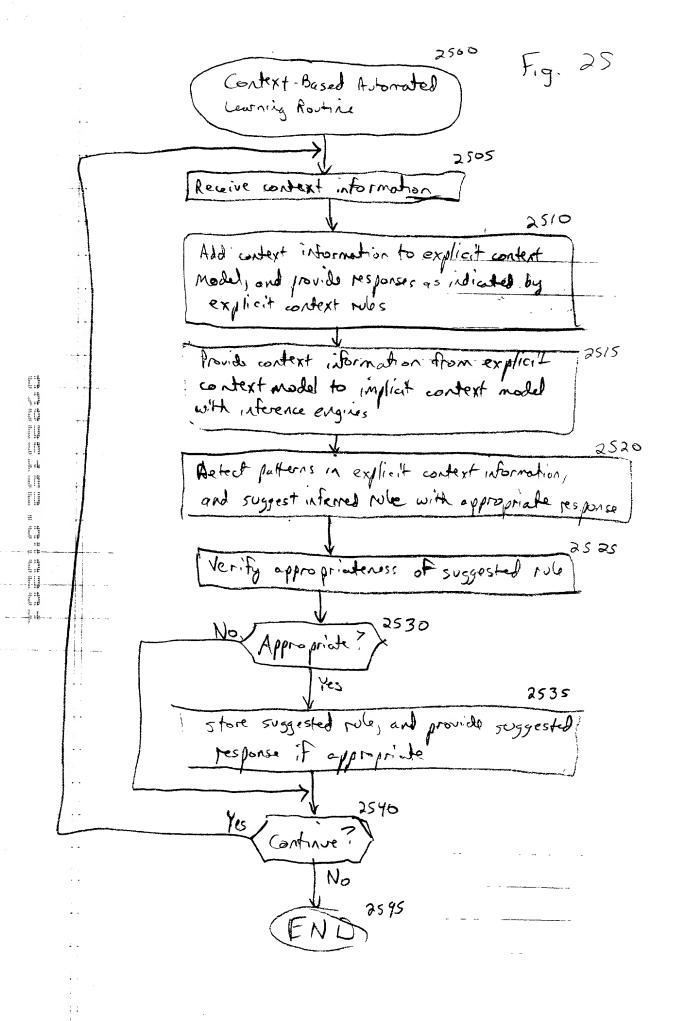
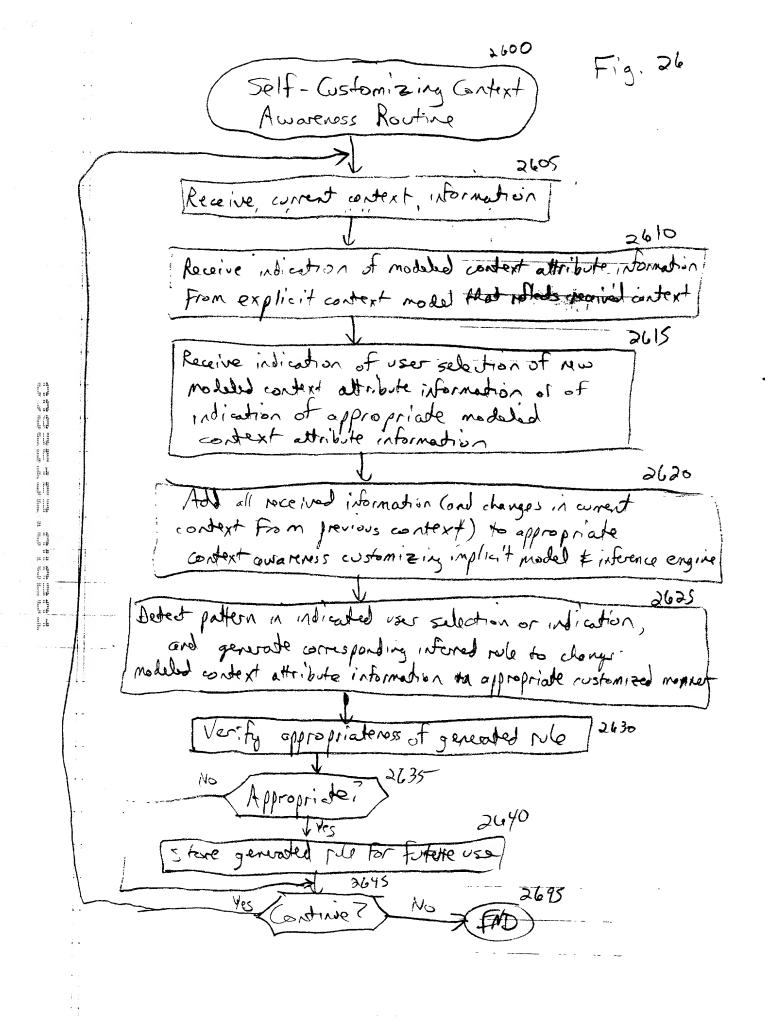
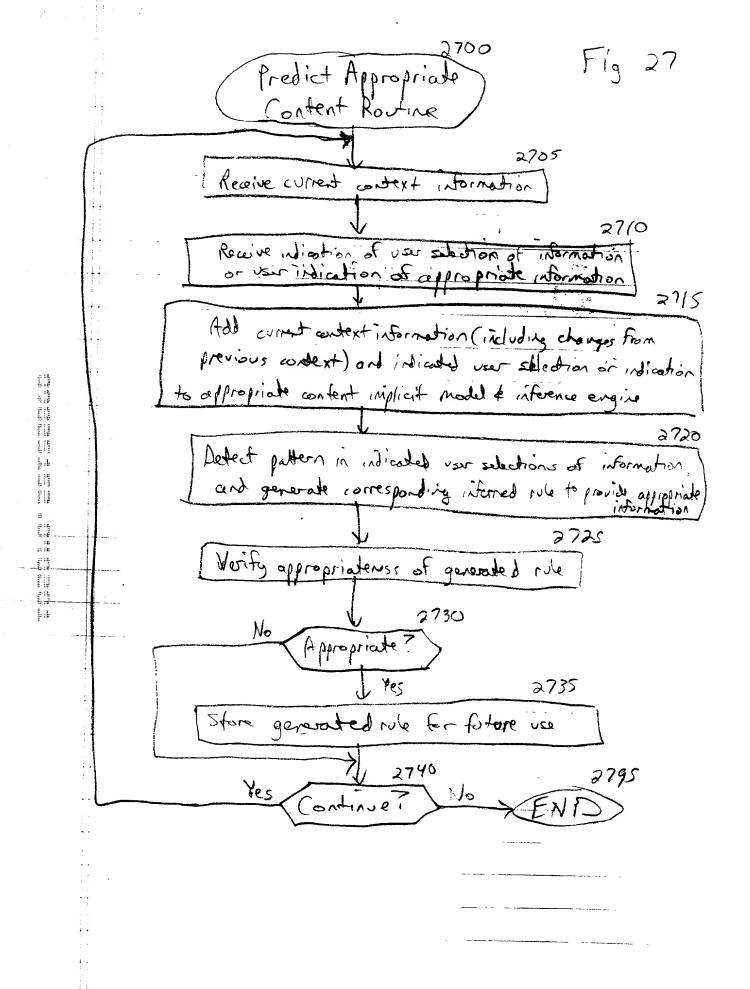


Fig. 24







2800 Fig. 28 Self-Optimizing UI Routine 2805 Receive current context . Normation 28/0 Receive indication of user changes to UI functionality or user indication of appropriate UI fonctionality Add received information Concluding changes from previous context) to appropriate UI optimizing implicit model and inference engine Detect pattern in user changes or indications, and generate corresponding interred rule to provide appropriate UI functionality Verify appropriateriss of generated rule (Appropriate?) 2835 Store generated rule for future use 2825 Ves (Continue? EN

